

ABSTRACT

The present invention is related to a method for preparing an amorphous metal fluoride of the formula  $M^{x+}F_{x-\delta}$  comprising the steps of

- a) providing a precursor, whereby the precursor comprises a structure having a formula of  $M^{x+}F_{(x-\delta)-y}B_y$ ; and
- b) reacting the precursor with a fluorinating agent generating the amorphous metal flouride having a formula of  $M^{x+}F_{x-\delta}$ ,

whereby      M is selected from the group comprising metals of the second, third and fourth main group and any subgroup of the periodic table,

B is a coordinately bound group;

x is any integer of 2 or 3;

y is any integer between 1 and 3;

$\delta$  is 0 to 0.1; and

$x-\delta > y$ .